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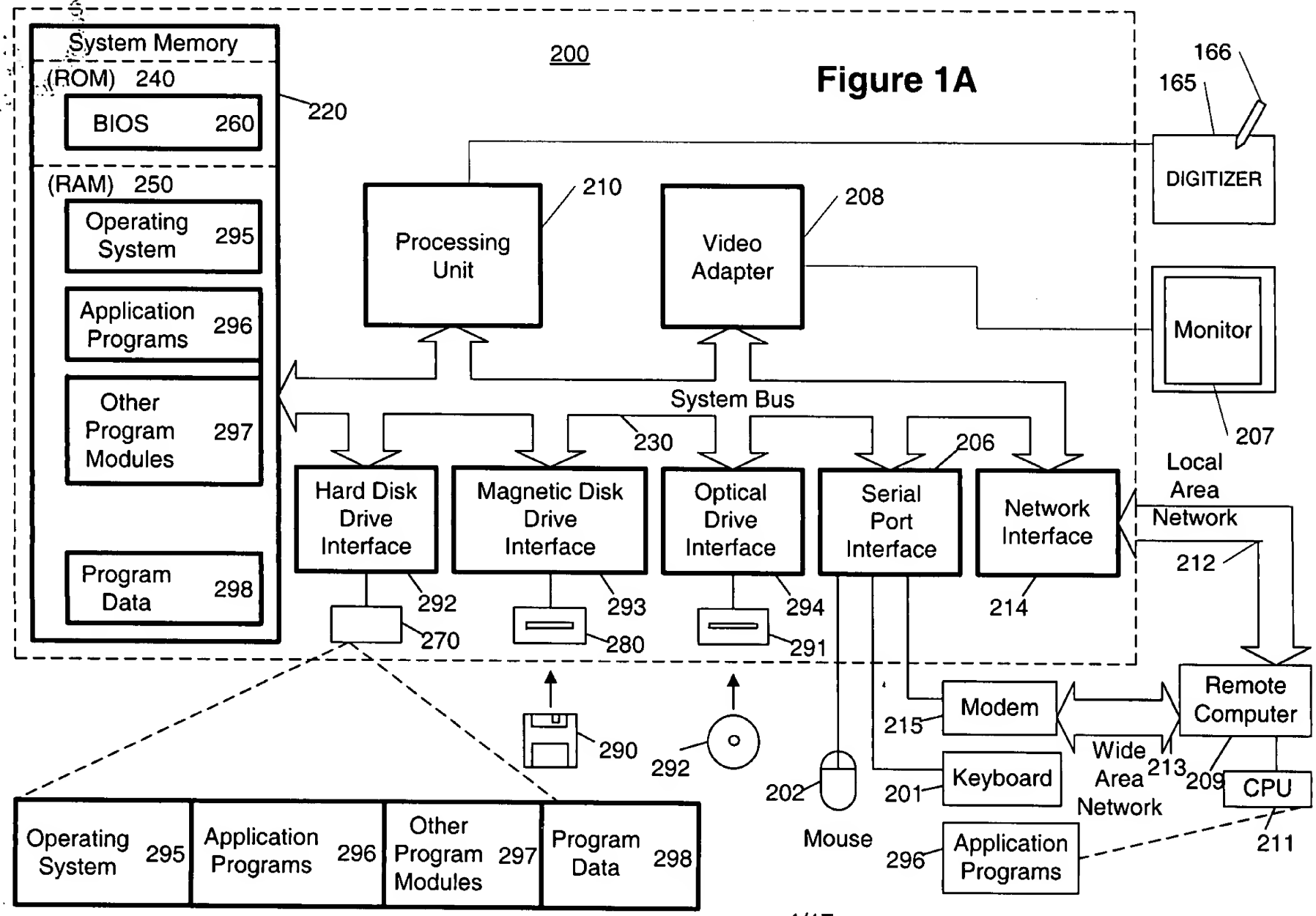

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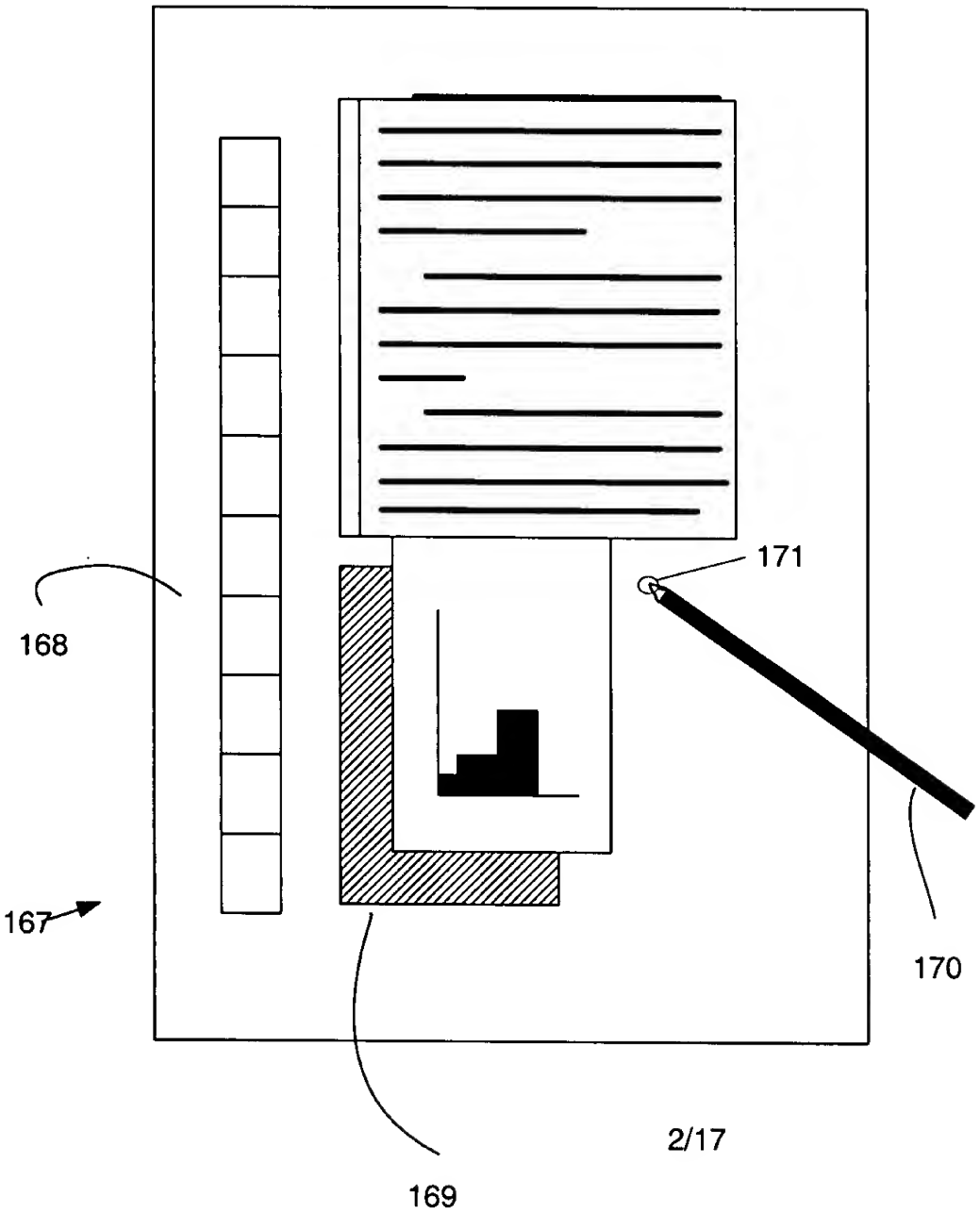

Figure 1B

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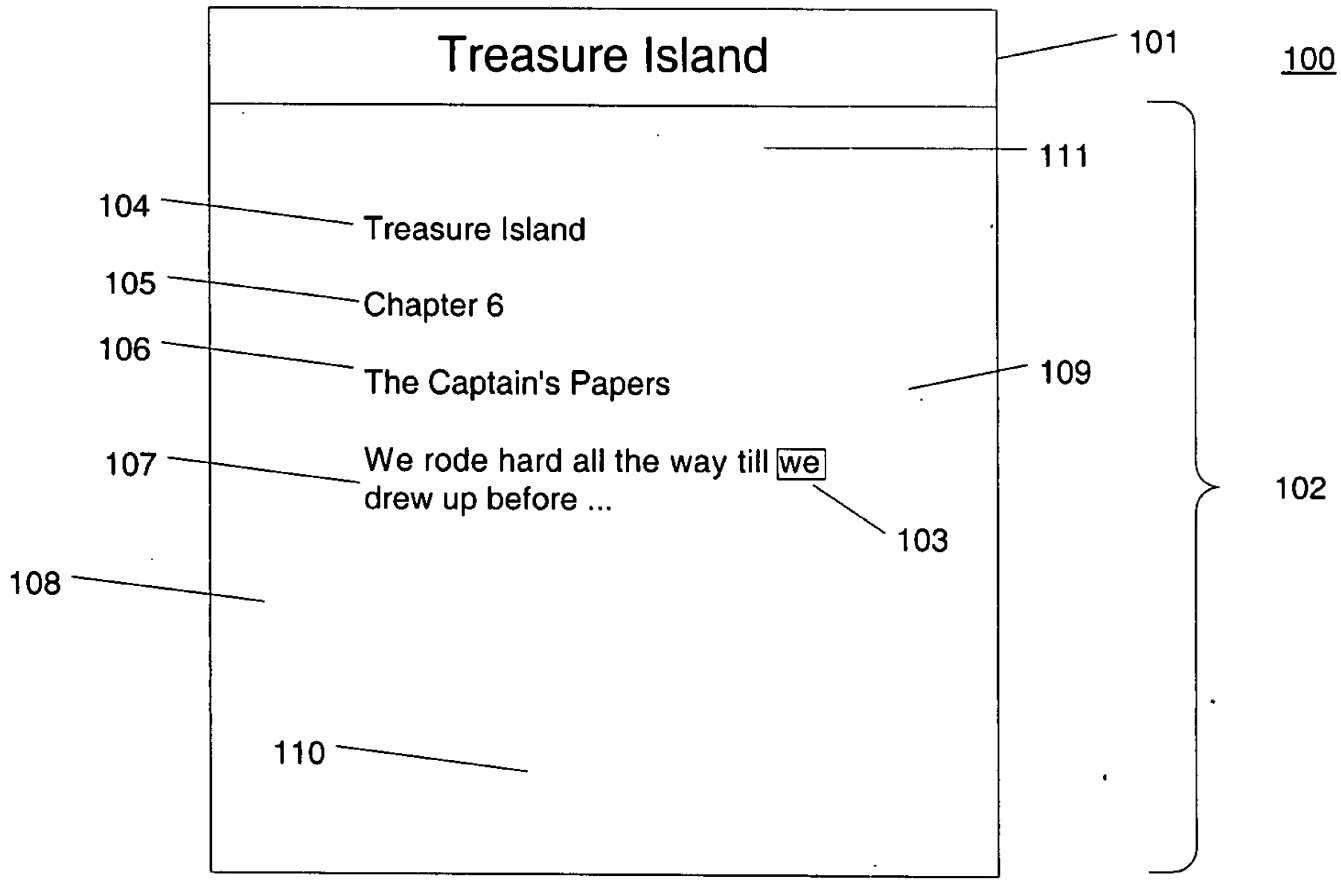

Figure 2

Figure 3A

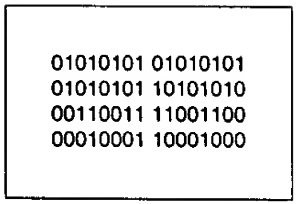

Figure 3B

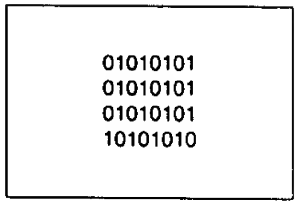

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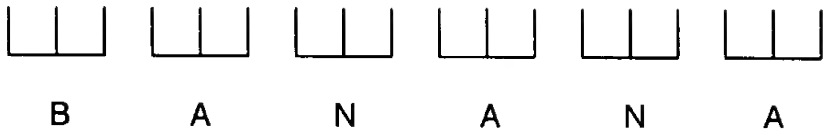
Figure 4



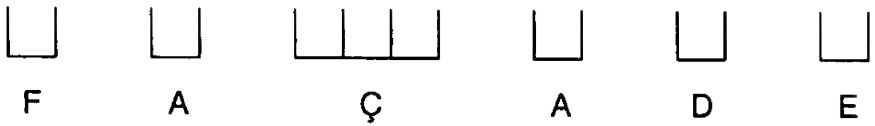


Figure 5

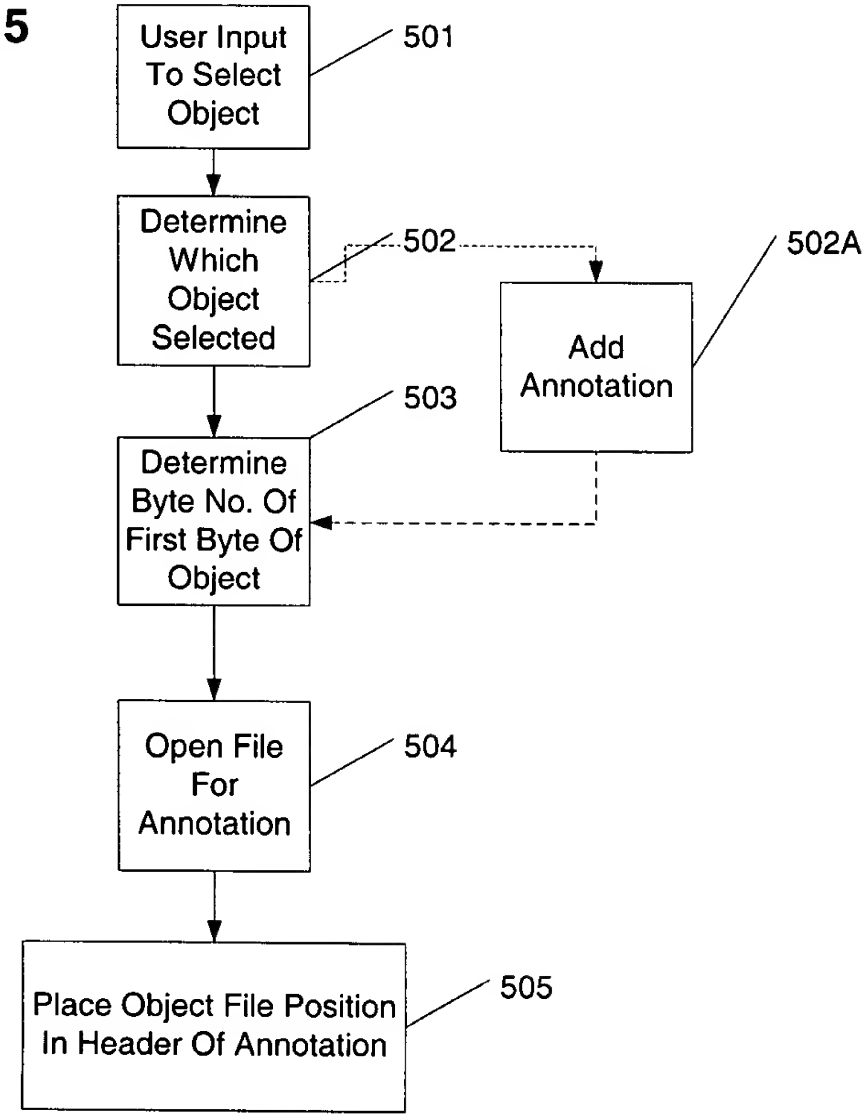

User Input To Select Object
501
Determine Which Object Selected
502
502A
Add Annotation
503
Determine Byte No. Of First Byte Of Object
Open File For Annotation
504
Place Object File Position In Header Of Annotation
505

Figure 6

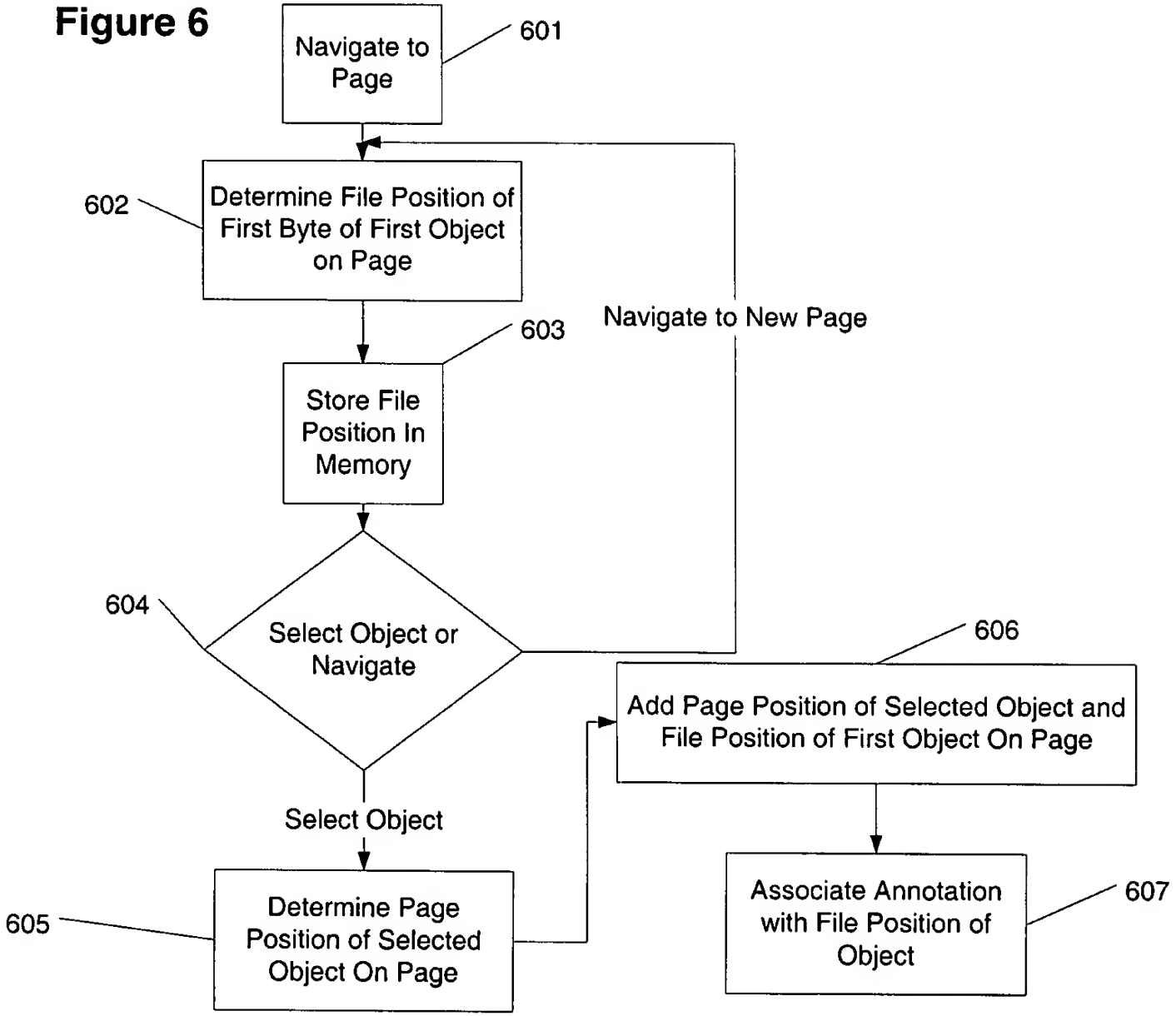

Navigate to Page
601
Determine File Position of First Byte of First Object on Page
602
Store File Position In Memory
603
Navigate to New Page
Select Object or Navigate
604
Select Object
Determine Page Position of Selected Object On Page
605
Add Page Position of Selected Object and File Position of First Object On Page
606
Associate Annotation with File Position of Object
607

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Figure 7

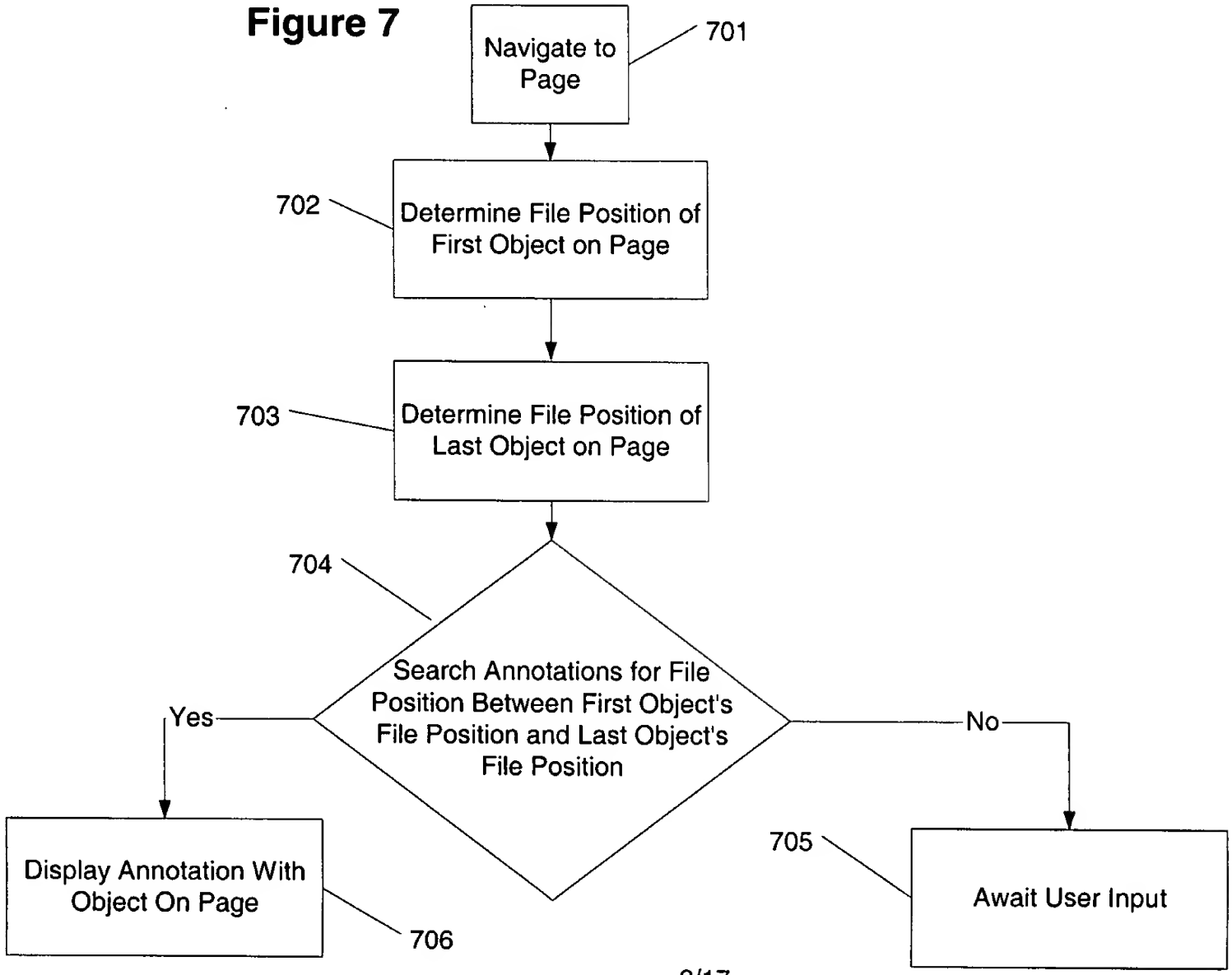

Figure 8A

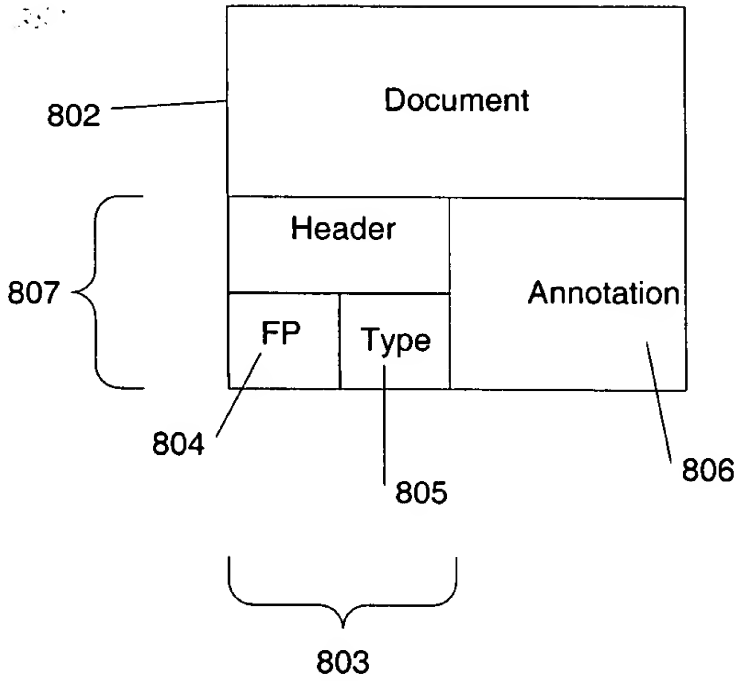

Figure 8B

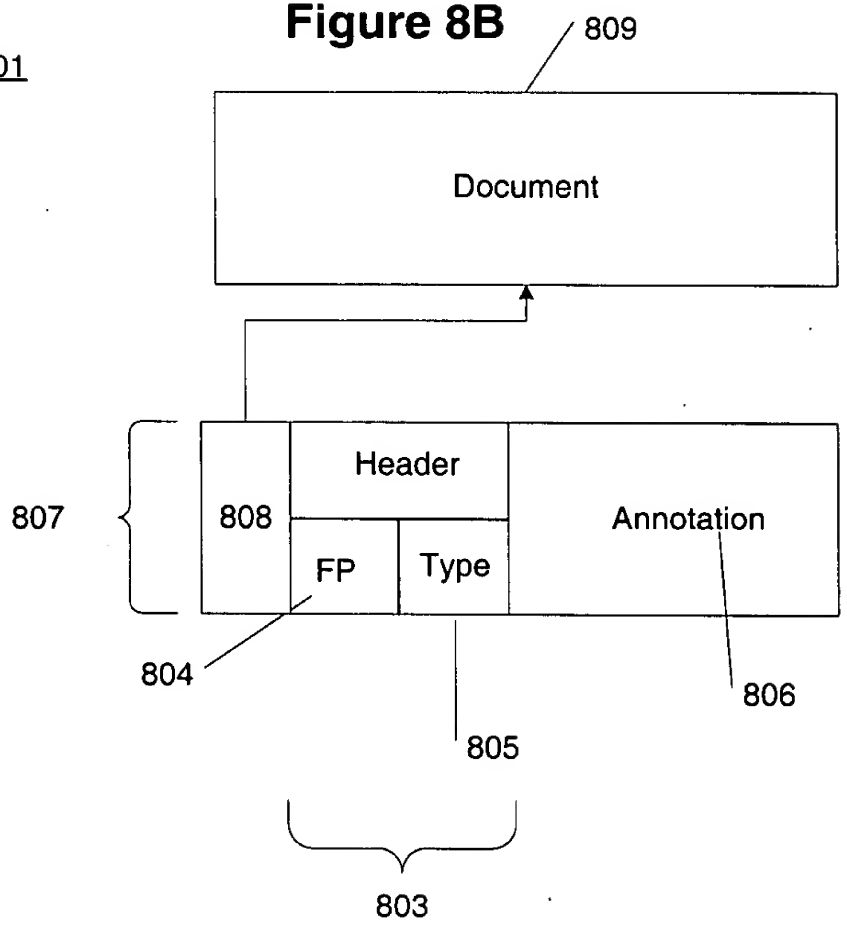

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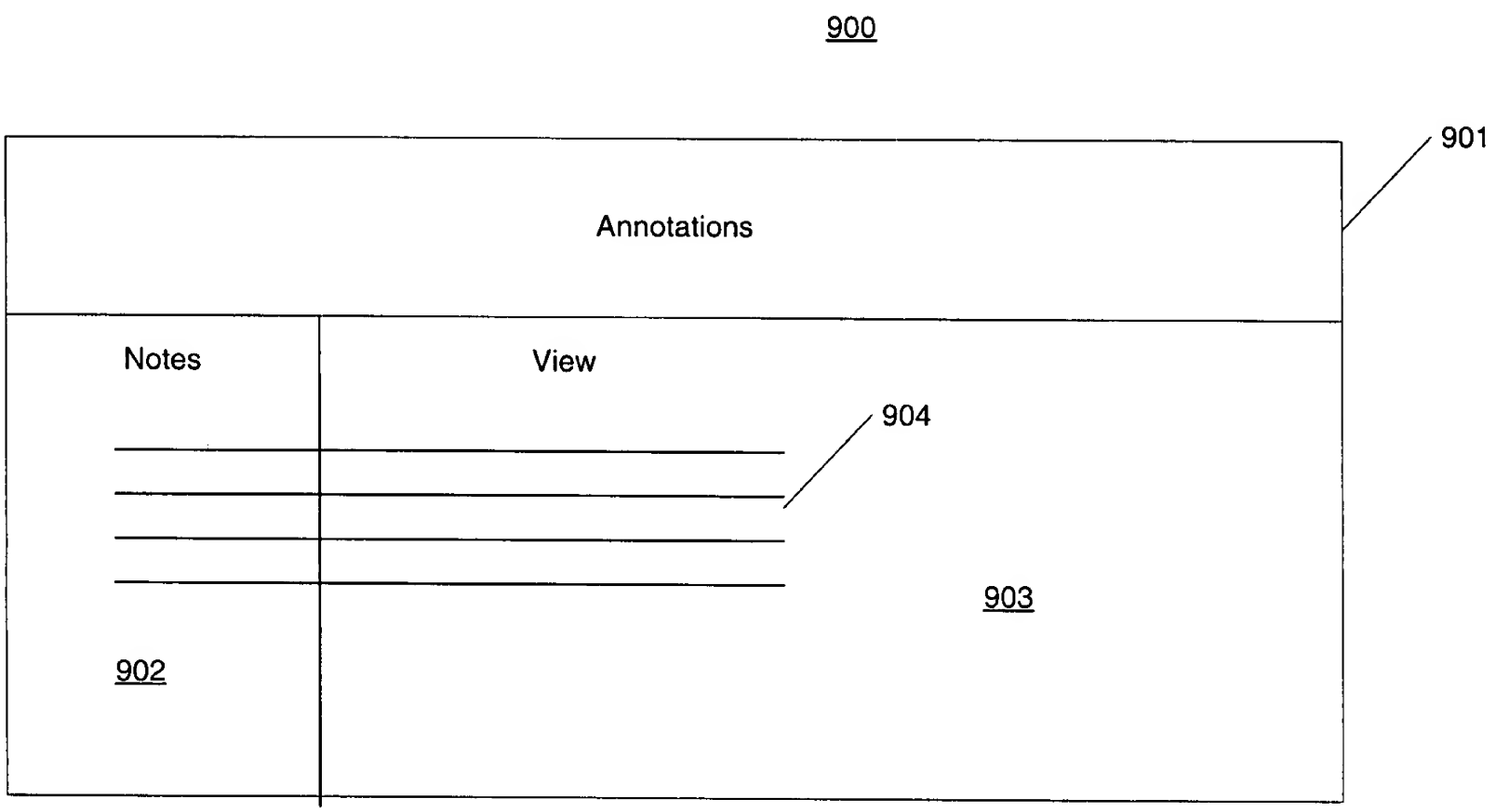
Figure 9



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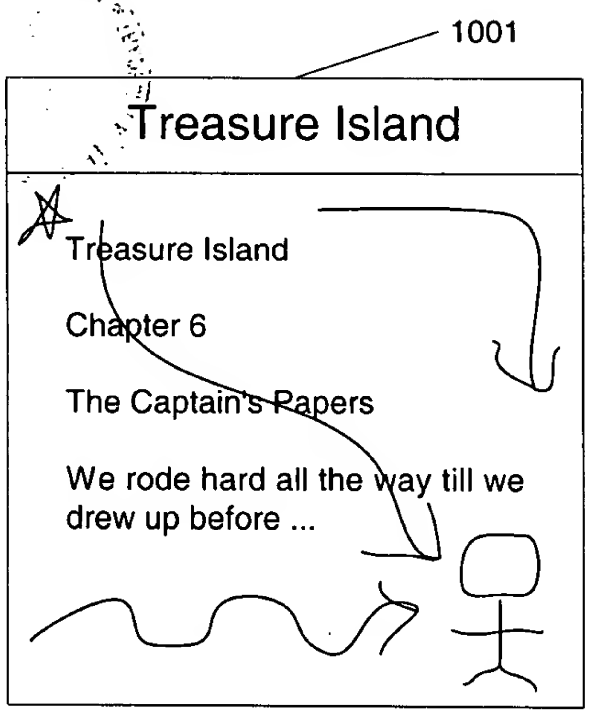


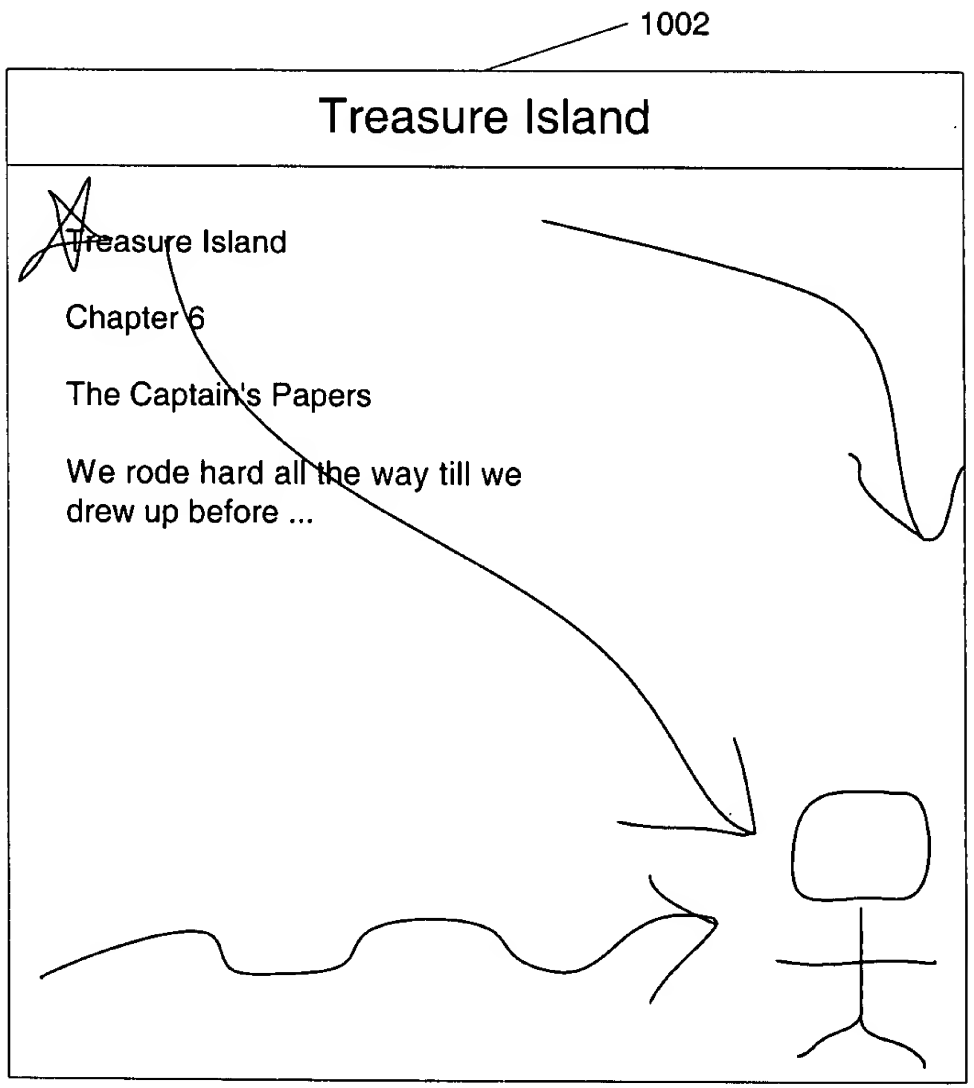
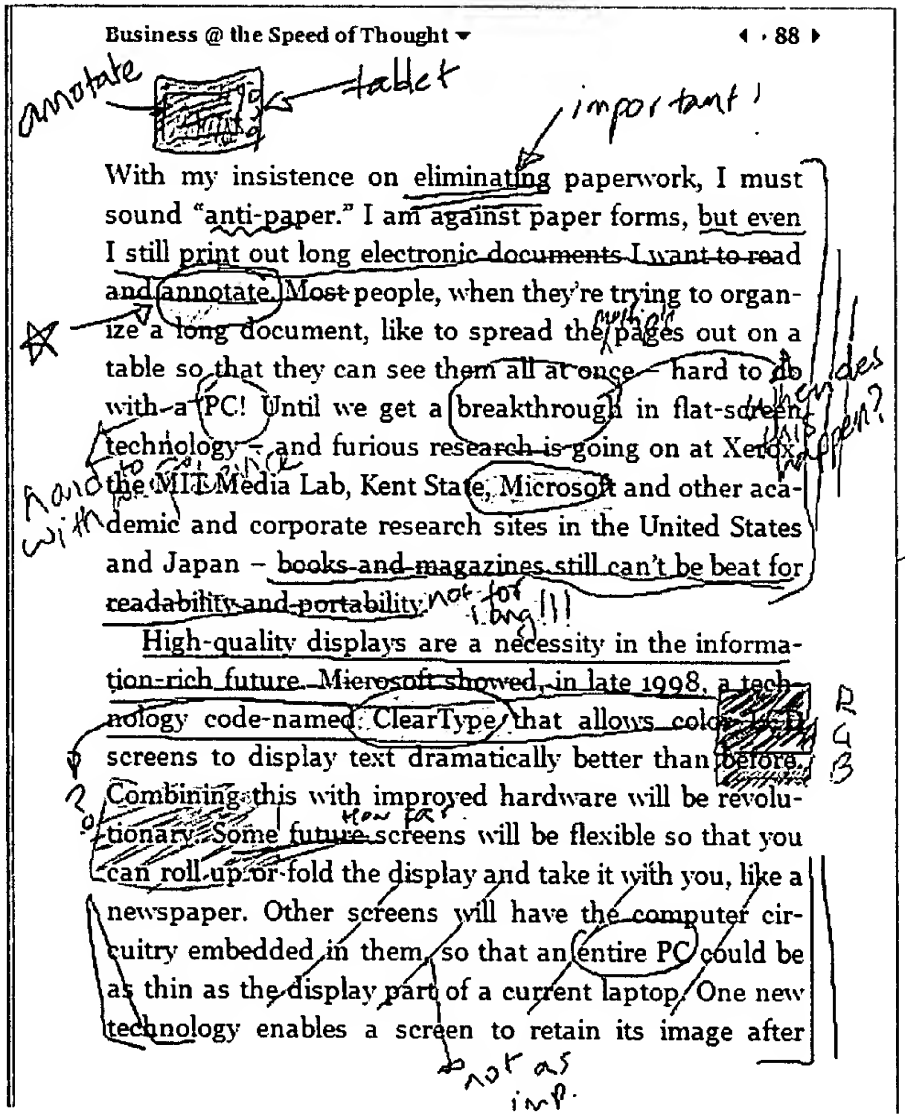


Figure 10



Business @ the Speed of Thought ◀ · 88 ▶

With my insistence on eliminating paperwork, I must sound "anti-paper." I am against paper forms, but even I still print out long electronic documents I want to read and annotate. Most people, when they're trying to organize a long document, like to spread the pages out on a table so that they can see them all at once – hard to do with a PC! Until we get a breakthrough in flat-screen technology – and furious research is going on at Xerox, the MIT Media Lab, Kent State, Microsoft and other academic and corporate research sites in the United States and Japan – books and magazines still can't be beat for readability and portability.

High-quality displays are a necessity in the information-rich future. Microsoft showed, in late 1998, a technology code-named ClearType that allows color LCD screens to display text dramatically better than before. Combining this with improved hardware will be revolutionary. Some future screens will be flexible so that you can roll up or fold the display and take it with you, like a newspaper. Other screens will have the computer circuitry embedded in them, so that an entire PC could be as thin as the display part of a current laptop. One new technology enables a screen to retain its image after

1101

Figure 11

TOTE20 "8820526D

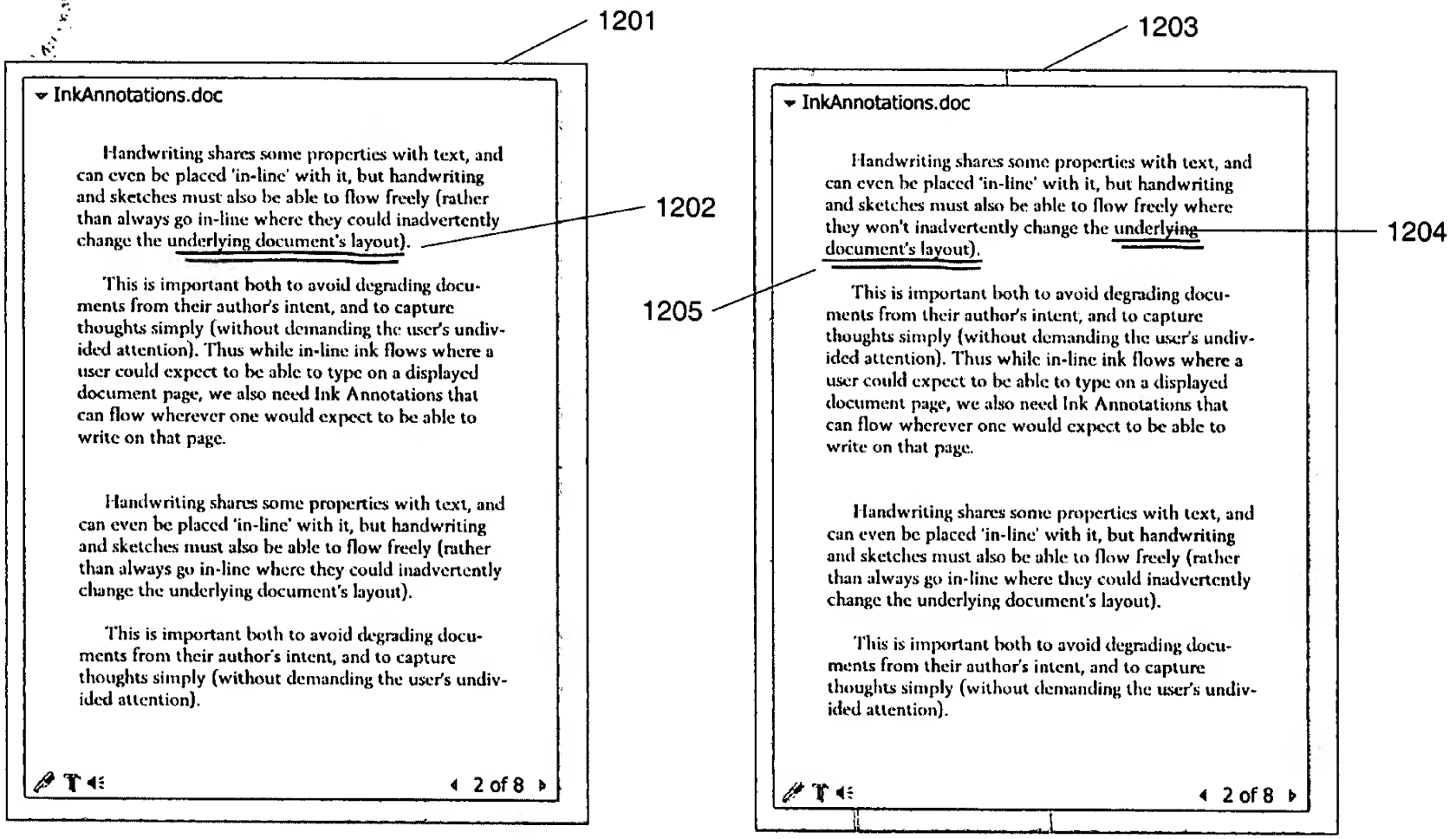


Figure 12

TOTE20 "88205260

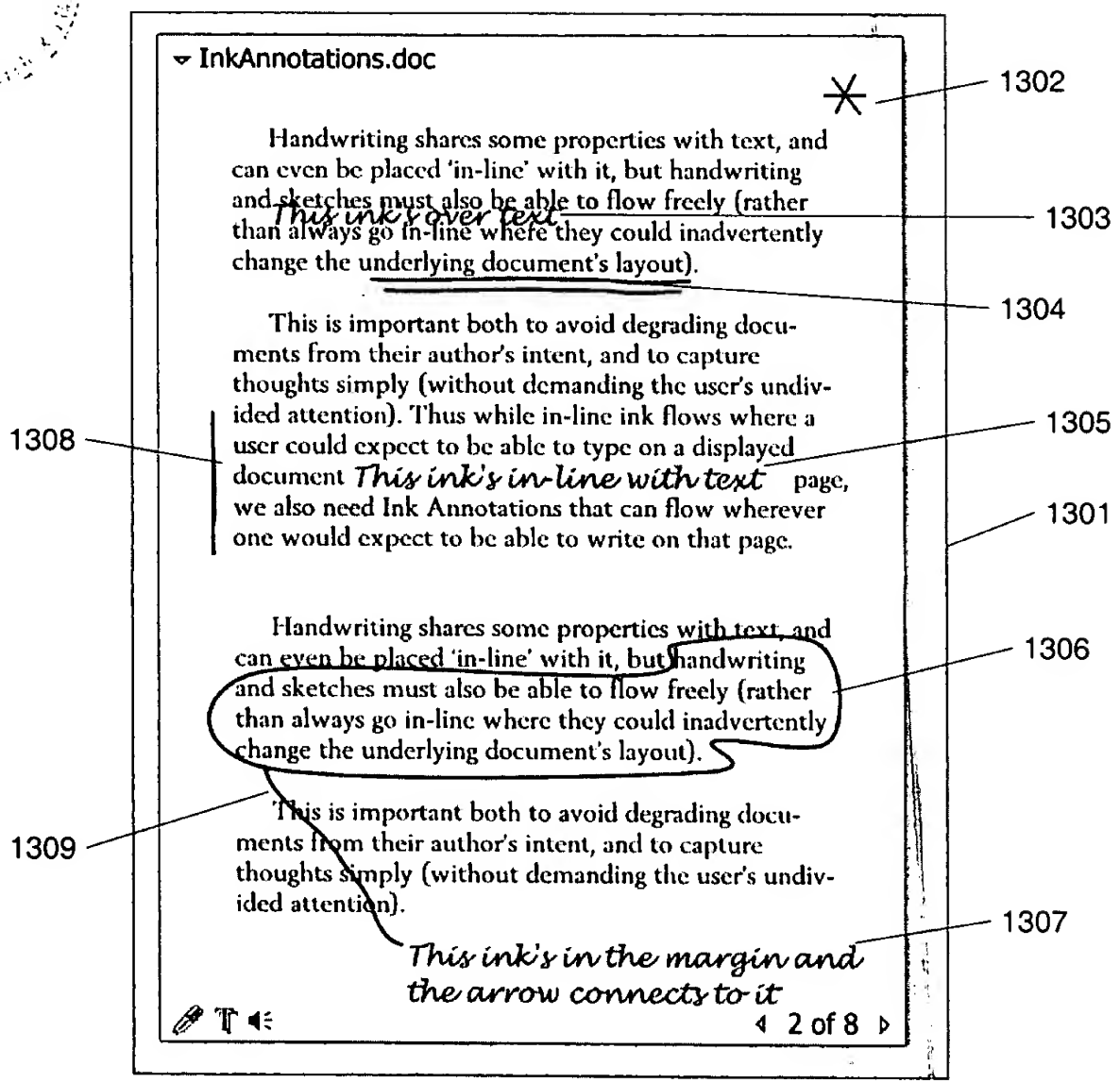
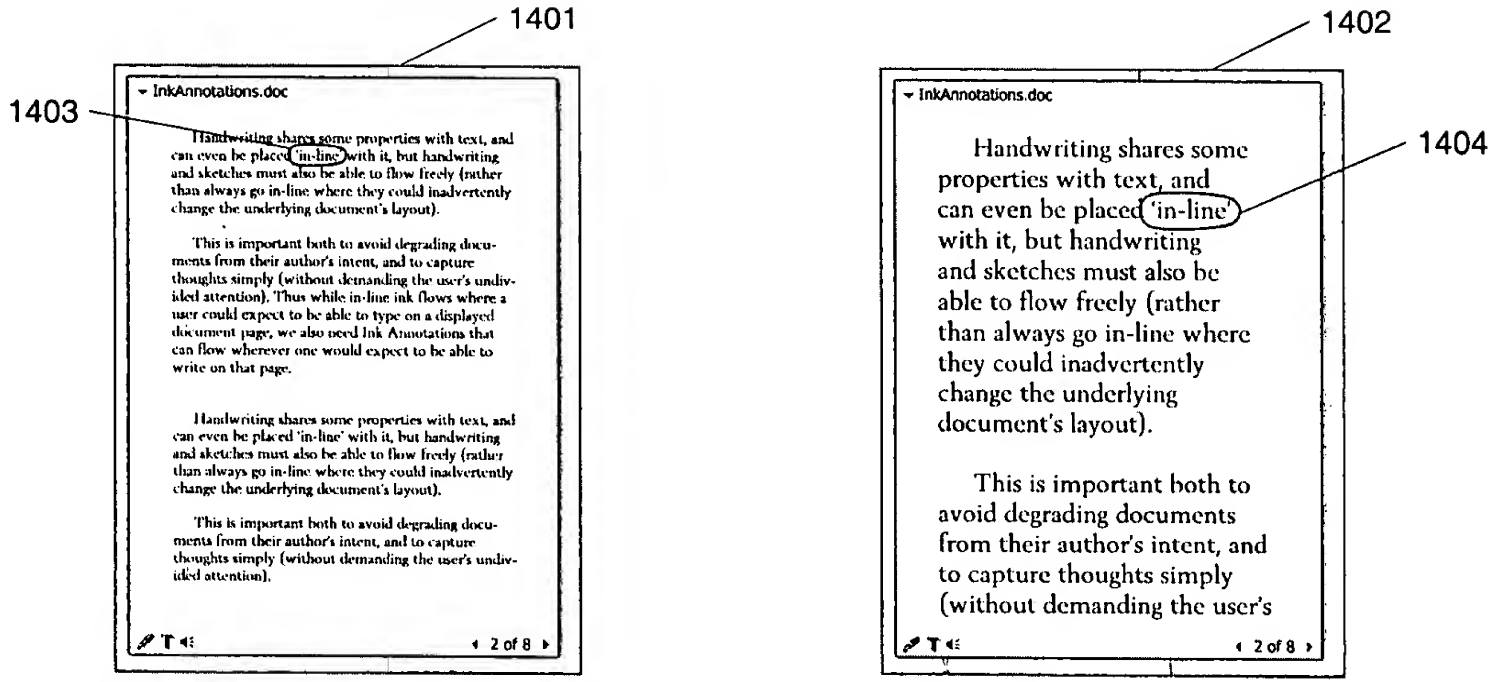


Figure 13


1401
1402
1403
1404
InkAnnotations.doc
Handwriting shares some properties with text, and can even be placed 'in-line' with it, but handwriting and sketches must also be able to flow freely (rather than always go in-line where they could inadvertently change the underlying document's layout).
This is important both to avoid degrading documents from their author's intent, and to capture thoughts simply (without demanding the user's undivided attention). Thus while in-line ink flows where a user could expect to be able to type on a displayed document page, we also need Ink Annotations that can flow wherever one would expect to be able to write on that page.
Handwriting shares some properties with text, and can even be placed 'in-line' with it, but handwriting and sketches must also be able to flow freely (rather than always go in-line where they could inadvertently change the underlying document's layout).
This is important both to avoid degrading documents from their author's intent, and to capture thoughts simply (without demanding the user's undivided attention).
2 of 8
InkAnnotations.doc
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This is important both to avoid degrading documents from their author's intent, and to capture thoughts simply (without demanding the user's
2 of 8

Figure 14

TOTEZO" 88205260

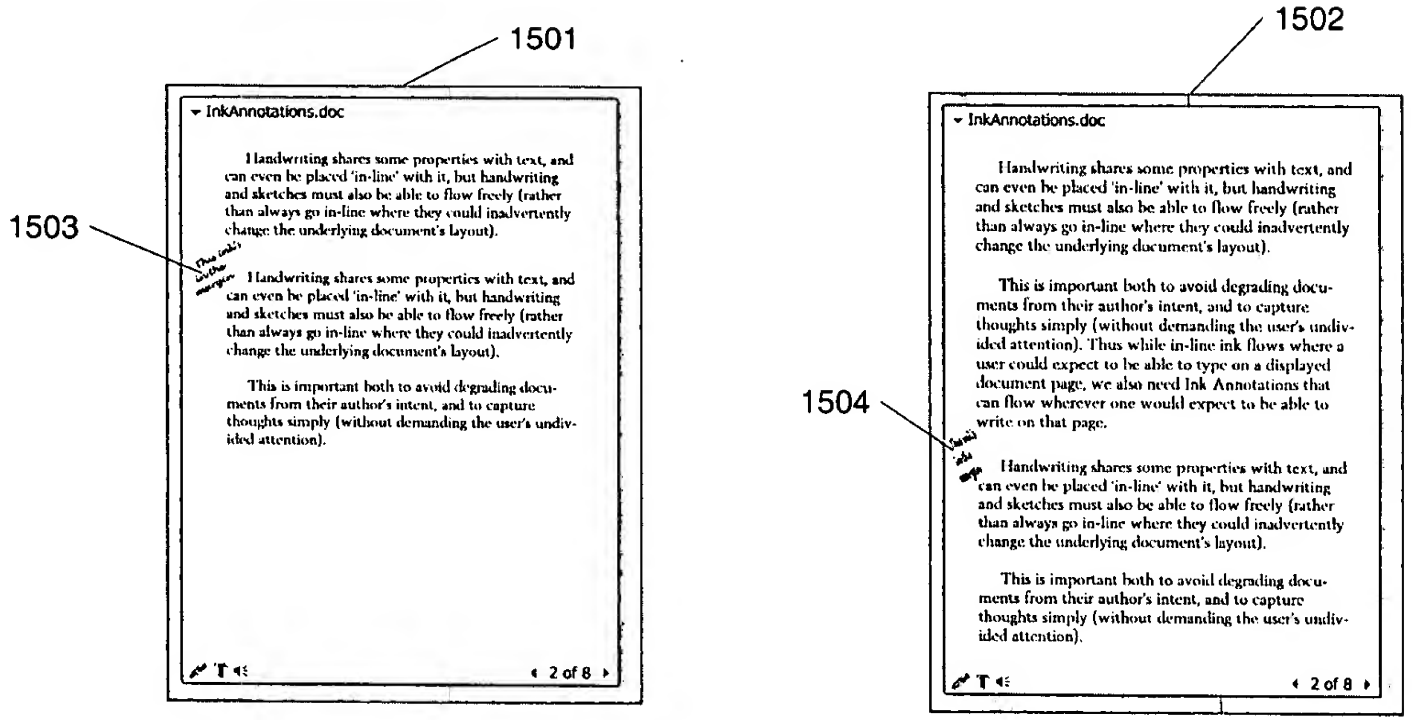

Figure 15

TOTE20" 88205260

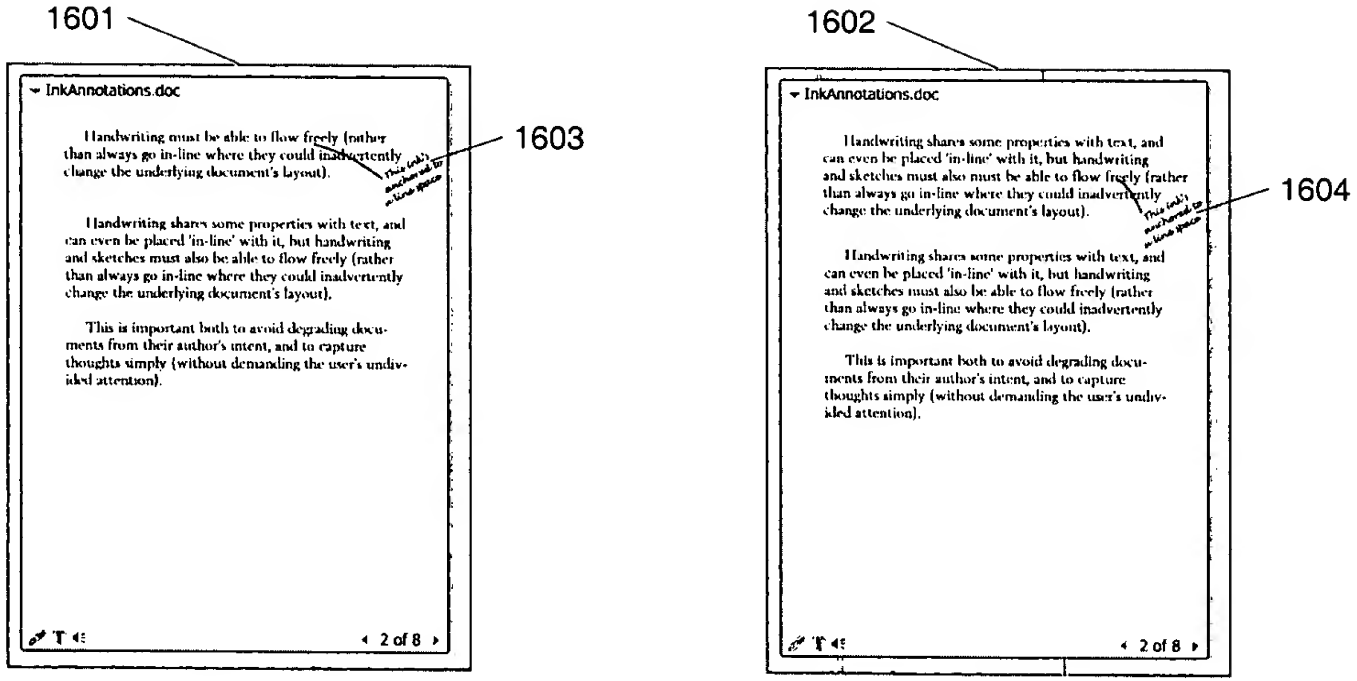

Figure 16